

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number
WO 2005/069989 A2

(51) International Patent Classification: Not classified

(74) Agent: DECAMP, James, D.; Clark & Elbing LLP, 101 Federal Street, Boston, MA 02110 (US).

(21) International Application Number:
PCT/US2005/002174

(22) International Filing Date: 21 January 2005 (21.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/538,278 21 January 2004 (21.01.2004) US
60/538,361 22 January 2004 (22.01.2004) US

(71) Applicant (for all designated States except US): THE GENERAL HOSPITAL CORPORATION [US/US]; 55 Fruit Street, Boston, MA 02114 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): RAHME, Laurence [GR/US]; 184 Winchester Street, Brookline, MA 02446 (US). DEZIEL, Eric [CA/US]; 124 Summer Street, Apt.6, Somerville, MA 02143 (US). LEPINE, François [CA/CA]; 3519 Rue Rouviere, Longueuil, Quebec J4L 4J9 (CA). TOMPKINS, Ronald, G. [US/US]; 2 Hawthorne Place, Boston, MA 02114 (US). XIAO, Gaoping [CN/US]; 26 Clarendon Street, #2L, Malden, MA 02148 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

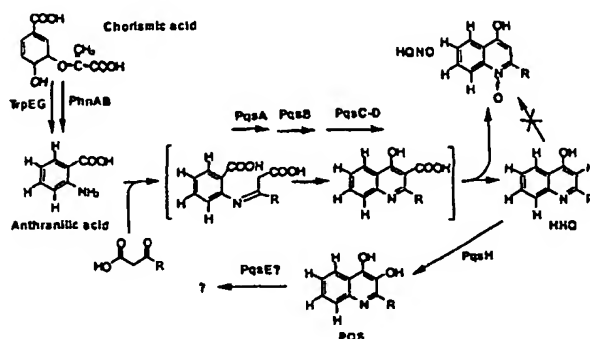
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS FOR IDENTIFYING CANDIDATE COMPOUNDS FOR TREATING, REDUCING, OR PREVENTING PATHOGENIC INFECTIONS



(57) Abstract: Disclosed are methods for identifying candidate compounds for treating, reducing, or preventing a pathogenic infection, the methods including: (a) contacting a pathogenic cell with a candidate compound; and (b) measuring the production of a molecule selected from the group consisting of an 4-hydroxy-2-alkylquinoline (HAQ) molecule, 4-hydroxy-2-heptylquinoline (HHQ) molecule, or a derivative or precursor thereof in the cell, a candidate compound that reduces the production relative to production of the molecule by a cell not contacted with the candidate compound, identifying a candidate compound useful for treating, reducing, or preventing a pathogenic infection.